Certifications

WBENC: 237019 **HUB:** 1752439743100-86536 **DBE:** VN 20657

NCTRCA WFWB38444Y0909

NELAP Certifications

Lubbock: T104704219-08-TX **El Paso:** T104704221-08-TX **Midland:** T104704392-08-TX

LELAP-02003 LELAP-02002

Kansas E-10317

Analytical and Quality Control Report

Jennifer Davis WTS Building 126 3RD Floor P.O. Box 363 WSMR, NM, 88002

Report Date: October 7, 2008

Work Order: 8080828

Project Name: HELSTF GROUNDWATER

Project Number: 65

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

			Date	111116	Date
\mathbf{Sample}	Description	Matrix	Taken	Taken	$\operatorname{Received}$
170067	HLSF-0085-HMW-014-0808	water	2008-08-06	14:15	2008-08-06
170168	HLSF-0085-HMW-055-0808	water	2008-08-08	13:16	2008-08-08
170170	HLSF-0085-HMW-010-0808	water	2008-08-07	10:20	2008-08-07
170455	HLSF-0085-HMW-054-0808	water	2008-08-11	10:08	2008-08-11
170457	HLSF-0085-D RW-008-0808	water	2008-08-11	12:55	2008-08-11
170843	HLSF-0085-HMW-043-0808	water	2008-08-13	09:45	2008-08-13
170986	HLSF-0085-DRW-017-0808	water	2008-08-14	10:30	2008-08-14
171111	HLSF-0085-HMW-062-0808	water	2008-08-18	14:00	2008-08-18
171300	HLSF-0085-HMW-008-0808	water	2008-08-19	10:48	2008-08-19
171303	HLSF-0085-HMW-034-0808	water	2008-08-19	12:46	2008-08-19
171731	HLSF-0085-HMW-033-0808	water	2008-08-21	09:42	2008-08-21
171733	HLSF-0085-HMW-059-0808	water	2008-08-21	11:45	2008-08-21
171735	HLSF-0085-DRW-016-0808	water	2008-08-22	10:25	2008-08-22
172137	HLSF-0085-DRW-114-0808	water	2008-08-27	13:35	2008-08-27
172139	HLSF-0085-DRW-014-0808	water	2008-08-27	13:35	2008-08-27

			\mathbf{Date}	Time	Date
Sample	Description	Matrix	Taken	Taken	$\operatorname{Received}$
172467	HLSF-0085-HMW-053-0808	water	2008-08-28	12:20	2008-08-28
172638	HLSF-0085-HMW-061-0908	water	2008-09-02	10:25	2008-09-02
172640	HLSF-0085-HMW-060-0908	water	2008-09-02	13:15	2008-09-02
172795	HLSF-0085-HMW-063-0908	water	2008-09-03	12:50	2008-09-03
172797	HLSF-0085-HMW-058-0908	water	2008-09-03	10:10	2008-09-05
172908	HLSF-0085-HMW-057-0908	water	2008-09-04	11:15	2008-09-04
172910	HLSF-0085-DRW-002-0908	water	2008-09-04	13:41	2008-09-04
173041	HLSF-0085-RB-001-0908	water	2008-09-08	15:30	2008-09-09
173043	HLSF-0085-HCF-003-0908	water	2008-09-08	12:00	2008-09-08
173045	HLSF-0085-HCF-103-0908	water	2008-09-08	12:00	2008-09-08

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 17 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Michael april

Dr. Blair Leftwich, Director

Standard Flags

 $\boldsymbol{B}\,$ - The sample contains less than ten times the concentration found in the method blank.

Case Narrative

Samples for project HELSTF GROUNDWATER, HELSTF GROUND-WATER, HELSTF GROUNDWATER, HELSTF GROUNDWATER, HELSTF GROUNDWA-TER, HELSTF GROUNDWATER, HELSTF STF GROUNDWATER, HELSTF GROUNDWATER, HELSTF GROUNDWATER, HELSTF GROUNDWATER and HEL-STF GROUNDWATER were received by TraceAnalysis, Inc. on 2008-08-06, 2008-08-08, 2008-08-07, 2008-08-11, 2008-08-11, 2008-08-13, 2008-08-14, 2008-08-18, 2008-08-19, 2008-08-19, 2008-08-21, 2008-08-21, 2008-08-22, 2008-08-27, 2008-08-27, 2008-08-29, 2008-08-28, 2008-09-02, 2008-09-02, 2008-09-03, 2008-09-05, 2008-09-04, 2008-09-04, 2008-09-09, 2008-09-08 and 2008-09-08 and assigned to work orders 8080828, 8081109, 8081110, 8081318, 8081319, 8081533, 8081820, 8082006, 8082103, 8082105, $8082517,\ 8082518,\ 8082519,\ 8082824,\ 8082825,\ 8090219,\ 8090411,\ 8090412,\ 8090519,\ 8090520,\ 8090810,\ 8090811,\ 8091019,$ 8091020 and 8091021 respectively. Samples for work order 8080828 were received intact without headspace and at a temperature of 4.0 deg. C.Samples for work order 8081109 were received intact without headspace and at a temperature of 4.0 deg. C.Samples for work order 8081110 were received intact without headspace and at a temperature of 4.0 deg. C.Samples for work order 8081318 were received intact without headspace and at a temperature of 4.0 deg. C.Samples for work order 8081319 were received intact without headspace and at a temperature of 4.0 deg. C.Samples for work order 8081533 were received intact without headspace and at a temperature of 4.0 deg. C.Samples for work order 8081820 were received intact without headspace and at a temperature of 4.0 deg. C.Samples for work order 8082006 were received intact without headspace and at a temperature of 4.0 deg. C.Samples for work order 8082103 were received intact without headspace and at a temperature of 4.0 deg. C.Samples for work order 8082105 were received intact without headspace and at a temperature of 4.0 deg. C.Samples for work order 8082517 were received intact without headspace and at a temperature of 4.0 deg. C.Samples for work order 8082518 were received intact without headspace and at a temperature of 4.0 deg C.Samples for work order 8082519 were received intact without headspace and at a temperature of 4.0 deg. C.Samples for work order 8082824 were received intact without headspace and at a temperature of 4.0 dec C.Samples for work order 8082825 were received intact without headspace and at a temperature of 4.0 dec C.Samples for work order 8090219 were received intact without headspace and at a temperature of 4.0 deg. C.Samples for work order 8090411 were received intact without headspace and at a temperature of 4.0 deg. C.Samples for work order 8090412 were received intact without headspace and at a temperature of 4.0 deg. C.Samples for work order 8090519 were received intact without headspace and at a temperature of 4.0 dec C.Samples for work order 8090520 were received intact without headspace and at a temperature of 4.0 deg.C.Samples for work order 8090810 were received intact without headspace and at a temperature of 4.0 dec C.Samples for work order 8090811 were received intact without headspace and at a temperature of 4.0 dec C.Samples for work order 8091019 were received intact without headspace and at a temperature of 4.0 deg. C.Samples for work order 8091020 were received intact without headspace and at a temperature of 4.0 deg. C.Samples for work order 8091021 were received intact without headspace and at a temperature of 4.0 deg. C.

Samples were analyzed for the following tests using their respective methods.

Test	Method
Conductivity	E 120.1
Conductivity	$SM\ 2510B$

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for

work orders 8080828, 8081109, 8081110, 8081318, 8081319, 8081533, 8081820, 8082006, 8082103, 8082105, 8082517, 8082518, 8082519, 8082824, 8082825, 8090219, 8090411, 8090412, 8090519, 8090520, 8090810, 8090811, 8091019, 8091020 and 8091021 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Work Order: 8080828 HELSTF GROUNDWATER

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Analytical Report

Sample: 170067 - HLSF-0085-HMW-014-080
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Analytical Method: Analysis: Conductivity E 120.1 Prep Method: N/A QC Batch: Date Analyzed: 2008-08-11 Analyzed By: MD 51524 Prep Batch: 44184 Sample Preparation: 2008-08-11 Prepared By: JR

RL

Parameter	Flag	Result	Units	Dilution	RL
Specific Conductance		36200	${ m uMHOS/cm}$	1	0.00

Sample: 170168 - HLSF-0085-HMW-055-0808

Laboratory: El Paso

Analysis: Conductivity Analytical Method: E 120.1 Prep Method: N/A QC Batch: 51524 Date Analyzed: 2008-08-11 Analyzed By: MD Prep Batch: 44184 Sample Preparation: 2008-08-11 Prepared By: JR

RL

Parameter	Flag	Result	Units	Dilution	RL
Specific Conductance		16400	uMHOS/cm	1	0.00

Sample: 170170 - HLSF-0085-HMW-010-0808

Laboratory: El Paso

Analysis: Conductivity Analytical Method: E 120.1 Prep Method: N/A QC Batch: 51524 Date Analyzed: 2008-08-11 Analyzed By: MD Prep Batch: 44184 Sample Preparation: 2008-08-11 Prepared By: JR

RL

Parameter	Flag	Result	Units	${\rm Dilution}$	RL
Specific Conductance		20300	uMHOS/cm	1	0.00

Sample: 170455 - HLSF-0085-HMW-054-0808

Laboratory: El Paso

Analysis: Conductivity Analytical Method: E 120.1 Prep Method: N/A QC Batch: 51528Date Analyzed: 2008-08-14 Analyzed By: MD2008-08-14 Prep Batch: 44186 Sample Preparation: Prepared By: $_{
m JG}$

 $\overline{continued}$. . .

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sample	170455	$continued \dots$

Parameter	Flag	$rac{ ext{RL}}{ ext{Result}}$	Units	Dilution	m RL
		m RL			
Parameter	Flag	Result	Units	Dilution	RL
Specific Conductance		14200	$\mathrm{uMHOS/cm}$	1	0.00

Sample: 170457 - HLSF-0085-D RW-008-0808

Analysis:	Conductivity	Analytical Method:	$\to 120.1$	Prep Method:	N/A
QC Batch:	51528	Date Analyzed:	2008-08-14	Analyzed By:	$\overline{\mathrm{MD}}$
Prep Batch:	44186	Sample Preparation:	2008-08-14	Prepared By:	$_{ m JG}$

		RL			
Parameter	Flag	Result	Units	Dilution	RL
Specific Conductance		12600	m uMHOS/cm	1	0.00

Sample: 170843 - HLSF-0085-HMW-043-0808

Laboratory: El Paso

Analysis:	Conductivity	Analytical Method:	E 120.1	Prep Method:	N/A
QC Batch:	51528	Date Analyzed:	2008-08-14	Analyzed By:	$\overline{\mathrm{MD}}$
Prep Batch:	44186	Sample Preparation:	2008-08-14	Prepared By:	$_{ m JG}$
		RL			

Parameter	Flag	Result	Units	Dilution	RL
Specific Conductance		6800	$\mathrm{uMHOS/cm}$	1	0.00

Sample: 170986 - HLSF-0085-DRW-017-0808

Laboratory: E.	l Paso
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Analysis:	Conductivity	Analytical Method:	$\to 120.1$	Prep Method:	N/A
QC Batch:	51713	Date Analyzed:	2008-08-20	Analyzed By:	MD
Prep Batch:	44340	Sample Preparation:	2008-08-20	Prepared By:	$_{ m JR}$

		RL			
Parameter	Flag	Result	Units	Dilution	RL
Specific Conductance		13500	m uMHOS/cm	1	0.00

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65 HELSTF GROUNDWATER

65			HELSTF GROUN	NDWATER		
Sample: 17	1111 - HLSF-00)85-HMW-(062-0808			
Laboratory: Analysis: QC Batch: Prep Batch:	El Paso Conductivity 51713 44340		Analytical Method: Date Analyzed: Sample Preparation:	E 120.1 2008-08-20 2008-08-20	Prep Method: Analyzed By: Prepared By:	N/A MD JR
			RL			
Parameter		Flag	Result	Units	Dilution	RL
Specific Cond	ductance		13700	uMHOS/cm	1	0.00
Sample: 17	1300 - HLSF-00)85-HMW-(008-0808			
Laboratory:	El Paso			7.4004		27/4
Analysis:	Conductivity		Analytical Method:	E 120.1	Prep Method:	N/A
QC Batch:	51713		Date Analyzed:	2008-08-20	Analyzed By:	MD
Prep Batch:	44340		Sample Preparation:	2008-08-20	Prepared By:	JR
D		T21	RL Daniel	TT:4-	D:l-+:	DТ
Parameter Specific Cond	d	Flag	Result 13600	$\frac{\text{Units}}{\text{uMHOS/cm}}$	Dilution 1	RL 0.00
	1303 - HLSF-00	185 HMW (134 N8N8	,		
_	El Paso	70 9-11 1V1 VV -(794-0000			
Laboratory: Analysis:	Conductivity		Analytical Method:	E 120.1	Prep Method:	N/A
QC Batch:	51713		Date Analyzed:	2008-08-20	Analyzed By:	MD
Prep Batch:	44340		Sample Preparation:	2008-08-20	Prepared By:	JR
			m RL			
Parameter		Flag	Result	Units	Dilution	RL
Specific Cond	ductance		12000	$\mathrm{uMHOS/cm}$	1	0.00
Sample: 17	1731 - HLSF-00)85-HMW-(033-0808			
Laboratory:	El Paso					
Analysis:	Conductivity		Analytical Method:	$\to 120.1$	Prep Method:	N/A
QC Batch:	51835		Date Analyzed:	2008-08-25	Analyzed By:	MD
Prep Batch:	44453		Sample Preparation:	2008-08-25	Prepared By:	MD

RL

Result

30700

Dilution

RL

0.00

Units

uMHOS/cm

Flag

Parameter

 $\overline{\text{Specific Conductance}}$

Report Date: October 7, 2008 Work Order: 8080828 Page Number: 8 of 17
65 HELSTF GROUNDWATER

65			HELSTF GROUN	NDWATER		
Sample: 17	71733 - HLSF-00)85-HMW-(059-0808			
Laboratory: Analysis: QC Batch: Prep Batch:	El Paso Conductivity 51835 44453		Analytical Method: Date Analyzed: Sample Preparation:	E 120.1 2008-08-25 2008-08-25	Prep Method: Analyzed By: Prepared By:	N/A MD MD
Parameter		Di	RL	T T '	$\operatorname{Dilution}$	DI
Specific Cone	ductance	Flag	Result 12600	Units uMHOS/cm	Dilution 1	RL 0.00
Sample: 17	71735 - HLSF-00)85-DRW-0	16-0808			
Laboratory: Analysis: QC Batch: Prep Batch:	El Paso Conductivity 51835 44453		Analytical Method: Date Analyzed: Sample Preparation:	E 120.1 2008-08-25 2008-08-25	Prep Method: Analyzed By: Prepared By:	N/A MD MD
Parameter Specific Cone	ductance	Flag	RL Result 16000	$\frac{\rm Units}{\rm uMHOS/cm}$	Dilution 1	RL 0.00
Sample: 17 Laboratory: Analysis: QC Batch:	72137 - HLSF-00 El Paso Conductivity 52113)85-DRW-1	14-0808 Analytical Method: Date Analyzed:	SM 2510B 2008-08-28	Prep Method: Analyzed By:	N/A MD
Prep Batch:	44679		Sample Preparation:	2008-08-28	Prepared By:	JT
Parameter Specific Cone	ductance	Flag	RL Result 20700	$\begin{array}{c} \text{Units} \\ \text{uMHOS/cm} \end{array}$	Dilution 1	RL 0.00
Sample: 17	72139 - HLSF-00)85-DRW-0	14-0808			
Laboratory: Analysis: QC Batch: Prep Batch:	El Paso Conductivity 52113 44679		Analytical Method: Date Analyzed: Sample Preparation:	SM 2510B 2008-08-28 2008-08-28	Prep Method: Analyzed By: Prepared By:	N/A MD JT
.		E.	RL	TT 4.	DU	D.T.

Dilution

RL

0.00

Units

uMHOS/cm

Flag

Result

20600

Parameter

 $\overline{\text{Specific Conductance}}$

Report Date: October 7, 2008 Work Order: 8080828 Page Number: 9 of 17
65 HELSTE GROUNDWATER

2467 - HLSF-00	85-HMW-(053-0808			
El Paso Conductivity 52441 44954		Analytical Method: Date Analyzed: Sample Preparation:	E 120.1 2008-09-10 2008-09-10	Prep Method: Analyzed By: Prepared By:	N/A MD JR
	T)	RL	T T '	D'1 - '	DI
duct anco	Flag			Dilution 1	$\frac{RL}{0.00}$
2638 - HLSF-00)85-HMW-(061-0908			
	70 0-11 1V1 VV -	701-0300			
Conductivity		Analytical Method:	E 120.1	Prep Method:	N/A
52441		Date Analyzed:	2008-09-10	Analyzed By:	$\dot{\mathrm{MD}}$
44954		Sample Preparation:	2008-09-10	Prepared By:	JR
	T)	RL	T T ***	D'I d'	DI
.1	Flag		Units uMHOS/cm		RL
ductance		18900	ulviii O5/ciii	1	0.00
2640 - HLSF-00)85-HMW-(umnos/tin	1	0.00
2640 - HLSF-0 0 El Paso	985-HMW-(060-0908	,		
2640 - HLSF-0 0 El Paso Conductivity	985-HMW-0	060-0908 Analytical Method:	E 120.1	Prep Method:	N/A
2640 - HLSF-0 0 El Paso Conductivity 52441)85-HMW-(060-0908 Analytical Method: Date Analyzed:	E 120.1 2008-09-10	Prep Method: Analyzed By:	N/A MD
2640 - HLSF-0 0 El Paso Conductivity)85-HMW-(060-0908 Analytical Method:	E 120.1	Prep Method:	N/A
2640 - HLSF-0 0 El Paso Conductivity 52441	9 85-HMW- 0	060-0908 Analytical Method: Date Analyzed:	E 120.1 2008-09-10	Prep Method: Analyzed By:	N/A MD
	Conductivity 52441 44954 ductance 2638 - HLSF-00 El Paso Conductivity 52441 44954	Conductivity 52441 44954 Flag ductance 2638 - HLSF-0085-HMW-0 El Paso Conductivity 52441 44954 Flag	Conductivity 52441 44954 Bate Analyzed: Sample Preparation: RL Flag Result ductance 44600 2638 - HLSF-0085-HMW-061-0908 El Paso Conductivity Analytical Method: 52441 Date Analyzed: 44954 RL RL	Conductivity	Conductivity Analytical Method: E 120.1 Prep Method: 52441 Date Analyzed: 2008-09-10 Analyzed By: 44954 Sample Preparation: 2008-09-10 Prepared By: RL Flag Result Units Dilution ductance 44600 uMHOS/cm 1 2638 - HLSF-0085-HMW-061-0908 El Paso Conductivity Analytical Method: E 120.1 Prep Method: 52441 Date Analyzed: 2008-09-10 Analyzed By: 44954 Sample Preparation: 2008-09-10 Prepared By: RL Flag Result Units Dilution

RL

Units

uMHOS/cm

Dilution

RL

0.00

Result

12300

Flag

Parameter

 $\overline{\text{Specific Conductance}}$

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65 HELSTF GROUNDWATER

65		HELSTF GROUN	DWATER		
Sample: 172797 - HLSF-00	085-HMW-0	058-0908			
Laboratory: El Paso Analysis: Conductivity QC Batch: 52442 Prep Batch: 44955		Analytical Method: Date Analyzed: Sample Preparation:	E 120.1 2008-09-10 2008-09-10	Prep Method: Analyzed By: Prepared By:	N/A MD JR
		RL			
Parameter	Flag	Result	Units	Dilution	RL
Specific Conductance		17100	uMHOS/cm	1	0.00
Sample: 172908 - HLSF-00	085-HMW-0	057-0908			
Laboratory: El Paso					
Analysis: Conductivity		Analytical Method:	E 120.1	Prep Method:	N/A
QC Batch: 52442		Date Analyzed:	2008-09-10	Analyzed By:	MD
Prep Batch: 44955		Sample Preparation:	2008-09-10	Prepared By:	JR
		RL			
Parameter	Flag	Result	Units	Dilution	RL
Specific Conductance		15300	$\mathrm{uMHOS/cm}$	1	0.00
Sample: 172910 - HLSF-00 Laboratory: El Paso Analysis: Conductivity QC Batch: 52442 Prep Batch: 44955	085-DRW-0	02-0908 Analytical Method: Date Analyzed: Sample Preparation:	E 120.1 2008-09-10 2008-09-10	Prep Method: Analyzed By: Prepared By:	N/A MD JR
		RL			
Parameter	Flag	Result	Units	Dilution	RL
Specific Conductance		9460	uMHOS/cm	1	0.00
Sample: 173041 - HLSF-00 Laboratory: El Paso Analysis: Conductivity QC Batch: 52442 Prep Batch: 44955	085-RB-001	-0908 Analytical Method: Date Analyzed: Sample Preparation:	E 120.1 2008-09-10 2008-09-10	Prep Method: Analyzed By: Prepared By:	N/A MD JR
		RL			
Parameter	Flag	Result	Units	Dilution	RL
Specific Conductance		63 4	uMHOS/cm	1	0.00

63.4

uMHOS/cm

0.00

Specific Conductance

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Work Order: 8080828 HELSTF GROUNDWATER Page Number: 11 of 17

65

Sample: 173043 - HLSF-0085-HCF-003-0908

Laboratory: El Paso

Analysis: Conductivity Analytical Method: E 120.1 Prep Method: N/AQC Batch: Date Analyzed: 52442 2008-09-10 Analyzed By: MD Prep Batch: 44955Sample Preparation: 2008-09-10 Prepared By: $_{
m JR}$

RL

Sample: 173045 - HLSF-0085-HCF-103-0908

Laboratory: El Paso

Analysis: Conductivity Analytical Method: E 120.1Prep Method: N/AQC Batch: 52442Date Analyzed: 2008-09-10 Analyzed By: MDPrep Batch: 44955Sample Preparation: 2008-09-10 Prepared By: JR

RL

Method Blank (1) QC Batch: 51524

QC Batch: 51524 Date Analyzed: 2008-08-11 Analyzed By: MD Prep Batch: 44184 QC Preparation: 2008-08-11 Prepared By: MD

Method Blank (1) QC Batch: 51528

QC Batch: 51528 Date Analyzed: 2008-08-14 Analyzed By: MD Prep Batch: 44186 QC Preparation: 2008-08-14 Prepared By: MD

Report Date: October 7, 2008 Work Order: 8080828 Page Number: 12 of 17 HELSTF GROUNDWATER Method Blank (1) QC Batch: 51713 QC Batch: 51713Date Analyzed: 2008-08-20 Analyzed By: MD Prep Batch: QC Preparation: 2008-08-20 Prepared By: 44340 MDMDLParameter Result Units RLFlag uMHOS/cm Specific Conductance 0.00 Method Blank (1) QC Batch: 51835 QC Batch: 51835Date Analyzed: 2008-08-25 Analyzed By: MDPrep Batch: 44453 QC Preparation: 2008-08-25 Prepared By: MDMDLParameter Result Units RLFlag Specific Conductance 0.00 uMHOS/cm Method Blank (1) QC Batch: 52113 QC Batch: Date Analyzed: 2008-08-28 Analyzed By: MD 52113 Prep Batch: 44679QC Preparation: 2008-08-28 Prepared By: MD MDLParameter Units RLFlag Result Specific Conductance uMHOS/cm .<1.00Method Blank (1) QC Batch: 52441 QC Batch: 52441 Date Analyzed: 2008-09-10 Analyzed By: MD

QC Preparation:

Flag

Prep Batch:

Parameter

Specific Conductance

44954

2008-09-10

MDL

0.00

Result

Prepared By:

Units

uMHOS/cm

MD

RL

Report Date: October 7, 2008

Work Order: 8080828

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Analyzed By:

Prepared By:

5

MD

MD

MD

MD

HELSTF GROUNDWATER

Method Blank (1) QC Batch: 52442

QC Batch: 52442 Date Analyzed: 2008-09-10

Prep Batch: 2008-09-10 44955QC Preparation:

MDL

Parameter Result Units RLFlag uMHOS/cm Specific Conductance 0.00

Duplicates (1) Duplicated Sample: 170067

QC Batch: 51524Date Analyzed: 2008-08-11 Analyzed By: Prepared By:

Prep Batch: 44184QC Preparation: 2008-08-11

Duplicate Sample RPD Result Result Units Dilution RPD Limit Param 37900 Specific Conductance 36200 uMHOS/cm 3

Duplicates (1) Duplicated Sample: 170457

QC Batch: Date Analyzed: 2008-08-14 Analyzed By: 51528 MDPrep Batch: 44186QC Preparation: 2008-08-14 Prepared By: MD

Duplicate RPD Sample Param Result Result Units Dilution RPD Limit Specific Conductance 12900 12600 uMHOS/cm 3

Duplicates (1) Duplicated Sample: 170986

QC Batch: Date Analyzed: 2008-08-20 Analyzed By: 51713 MDPrep Batch: 44340 QC Preparation: 2008-08-20 Prepared By: MD

RPDDuplicate Sample Result Units Dilution RPD Param Result Limit uMHOS/cm Specific Conductance 13700 13500 2 3

Duplicates (1) Duplicated Sample: 171731

QC Batch: 51835 Date Analyzed: 2008-08-25 Analyzed By: MDPrep Batch: 44453QC Preparation: 2008-08-25 Prepared By: MD Work Order: 8080828 HELSTF GROUNDWATER Page Number: 14 of 17

RPD Limit

Danam	Duplicate Description	Sample	IImita	Dilution	DDI
Param	Result	Result	Units	Dilution	RPI
Specific Conductance	31300	30700	uMHOS/cm	1	2

QC Batch:	52113	Date Analyzed:	2008-08-28	Analyzed By:	MD
Prep Batch:	44679	QC Preparation:	2008-08-28	Prepared By:	MD

	Duplicate	\mathbf{Sample}				RPD
Param	Result	Result	Units	Dilution	RPD	Limit
Specific Conductance	20600	20600	uMHOS/cm	1	0	3

Duplicates (1) Duplicated Sample: 172797

QC Batch:	52442	Date Analyzed:	2008-09-10	Analyzed By:	MD
Prep Batch:	44955	QC Preparation:	2008-09-10	Prepared By:	MD

	Duplicate	\mathbf{Sample}				RPD
Param	Result	Result	Units	Dilution	RPD	Limit
Specific Conductance	17500	17100	uMHOS/cm	1	2	3

Standard (ICV-1)

QC Batch: 51524 Date Analyzed: 2008-08-11 Analyzed By: MD

			ICVs	ICVs	ICVs	$\operatorname{Percent}$	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	$\operatorname{Conc.}$	$\operatorname{Conc.}$	Recovery	Limits	Analyzed
Specific Conductance		uMHOS/cm	1410	1410	100	90 - 110	2008-08-11

Standard (CCV-1)

QC Batch: 51524 Date Analyzed: 2008-08-11 Analyzed By: MD

			CCVs	CCVs	CCVs	$\operatorname{Percent}$	
			True	Found	$\operatorname{Percent}$	Recovery	Date
Param	Flag	Units	$\operatorname{Conc.}$	$\operatorname{Conc.}$	Recovery	Limits	${ m Analyzed}$
Specific Conductance		uMHOS/cm	1410	1420	100	90 - 110	2008-08-11

Standard (ICV-1)

QC Batch: 51528 Date Analyzed: 2008-08-14 Analyzed By: MD

Standard (CCV-1)

QC Batch: 51835

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Analyzed By: MD

		111	<u> </u>	JOND WATE.			
			$egin{array}{c} ext{ICVs} \ ext{True} \end{array}$	ICVs Found	$egin{array}{l} ext{ICVs} \ ext{Percent} \end{array}$	Percent Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	$rac{ ext{Analyzed}}{ ext{Analyzed}}$
Specific Conductance		${ m uMHOS/cm}$	1410	1420	100	90 - 110	2008-08-14
Standard (CCV-1)							
QC Batch: 51528		Date A	analyzed: 2	008-08-14		Analyz	zed By: MD
			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	$\operatorname{Conc.}$	$\operatorname{Conc.}$	Recovery	Limits	${ m Analyzed}$
Specific Conductance		uMHOS/cm	1410	1420	100	90 - 110	2008-08-14
Standard (ICV-1)							
QC Batch: 51713		Date A	analyzed: 2	008-08-20		Analyz	zed By: MD
			ICVs	ICVs	ICVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	$\operatorname{Conc.}$	Recovery	Limits	${ m Analyzed}$
Specific Conductance		uMHOS/cm	1410	1390	98	90 - 110	2008-08-20
Standard (CCV-1)							
QC Batch: 51713		Date A	nalyzed: 2	008-08-20		Analyz	zed By: MD
			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	\mathbf{A} nalyzed
Specific Conductance		${ m uMHOS/cm}$	1410	1390	98	90 - 110	2008-08-20
Standard (ICV-1)							
QC Batch: 51835		Date A	nalyzed: 2	008-08-25		Analyz	zed By: MD
			ICVs	ICVs	ICVs	Percent	
			True	Found	$\operatorname{Percent}$	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Specific Conductance		uMHOS/cm	1410	1440	102	90 - 110	2008-08-25

 $Date\ Analyzed:\ \ 2008-08-25$

Standard (ICV-1)

QC Batch: 52442

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Analyzed By: MD

			32011 0100	, 0112 111111			
Param	Flag	${ m Units}$	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	$egin{aligned} ext{Date} \ ext{Analyzed} \end{aligned}$
Specific Conductance		uMHOS/cm	1410	1400	99	90 - 110	2008-08-25
Standard (ICV-1)							
QC Batch: 52113		Date A	nalyzed: 2	008-08-28		Analy	zed By: MD
			ICVs	ICVs	ICVs	Percent	
_			True	Found	$\operatorname{Percent}$	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Specific Conductance		uMHOS/cm	1410	1410	100	90 - 110	2008-08-28
Standard (CCV-1)							
QC Batch: 52113		Date A	nalyzed: 2	008-08-28		Analy	zed By: MD
			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	$\operatorname{Conc.}$	$\operatorname{Conc.}$	Recovery	Limits	${ m Analyzed}$
Specific Conductance		uMHOS/cm	1410	1410	100	90 - 110	2008-08-28
Standard (ICV-1)							
QC Batch: 52441		Date A	nalyzed: 2	008-09-10		Analy	zed By: MD
			ICVs	ICVs	ICVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	$\operatorname{Conc.}$	Recovery	Limits	${ m Analyzed}$
Specific Conductance		uMHOS/cm	1410	1440	102	90 - 110	2008-09-10
Standard (CCV-1)							
QC Batch: 52441		Date A	nalyzed: 2	008-09-10		Analy	zed By: MD
			CCVs	CCVs	CCVs	Percent	
			True	Found	$\operatorname{Percent}$	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Specific Conductance		${ m uMHOS/cm}$	1410	1410	100	90 - 110	2008-09-10

Date Analyzed: 2008-09-10

Report Date: October 7, 2008

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			ICVs	ICVs	ICVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	$\operatorname{Conc.}$	$\operatorname{Conc.}$	Recovery	Limits	Analyzed
Specific Conductance		uMHOS/cm	1410	1430	101	90 - 110	2008-09-10

Standard (CCV-1)

QC Batch: 52442 Date Analyzed: 2008-09-10 Analyzed By: MD

			CCVs	CCVs	CCVs	$\operatorname{Percent}$	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	$\operatorname{Conc.}$	$\operatorname{Conc.}$	Recovery	Limits	${ m Analyzed}$
Specific Conductance		uMHOS/cm	1410	1420	100	90 - 110	2008-09-10